



# Retina MacBook 2015 Dual Microphone Assembly Replacement

Replace the dual microphone assembly in the Retina MacBook 2015.

Written By: Geoff Wacker



## INTRODUCTION

Use this guide to replace the dual microphone assembly in your Retina MacBook 2015.



### TOOLS:

- [iPad Battery Isolation Pick](#) (1)
- [P5 Pentalobe Screwdriver Retina MacBook Pro and Air](#) (1)
- [Spudger](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [Tri-point Y00 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [iOpener](#) (1)
- [Probe and Pick Set](#) (1)




### PARTS:

- [MacBook 12" Retina \(Early 2016 Early 2016\) Lower Case Screw Set](#) (1)

## Step 1 — Lower Case Assembly



 Before proceeding, power down your MacBook. Close the display and lay it on a soft surface, top-side down.

- Remove the following eight screws securing the lower case:
  - Two 1.8 mm P5 Pentalobe screws
  - Four 2.9 mm P5 Pentalobe screws
  - Two 6.1 mm P5 Pentalobe screws

## Step 2



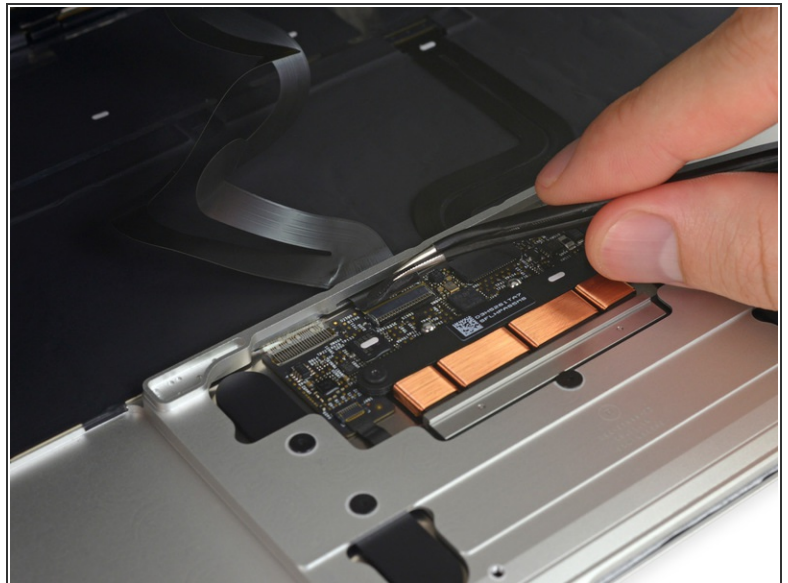
- Wedge your fingers between the upper case and the lower case, starting from the rear of the MacBook between the hinges.
- ⚠ Lift the lower case only slightly to avoid damaging the cables that connect the lower case to the upper case.
- Keeping a firm grip, lift steadily until the lower case separates slightly from the upper case.
- ⓘ You may experience a lot of resistance when lifting the lower case. If necessary, slide a plastic opening tool down the side edges of the lower case to pop the two hidden retaining clips free.

## Step 3



- Rotate the MacBook 180° and gently flip open the lower case from the front.
  - Open the lower case to an angle of about 45°.
- ⚠ Take care not to damage the ribbon cables that still attach the lower case to the MacBook.

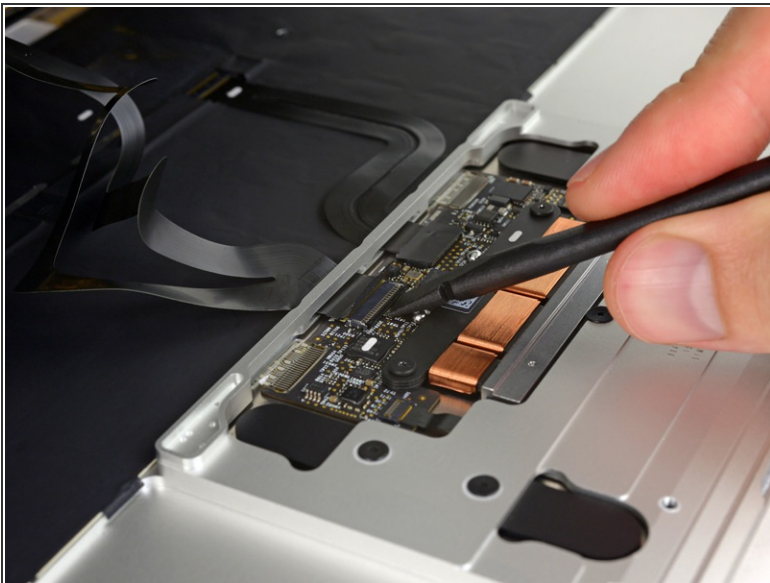
## Step 4



- Use tweezers to peel back the tape covering the trackpad cable ZIF connector.

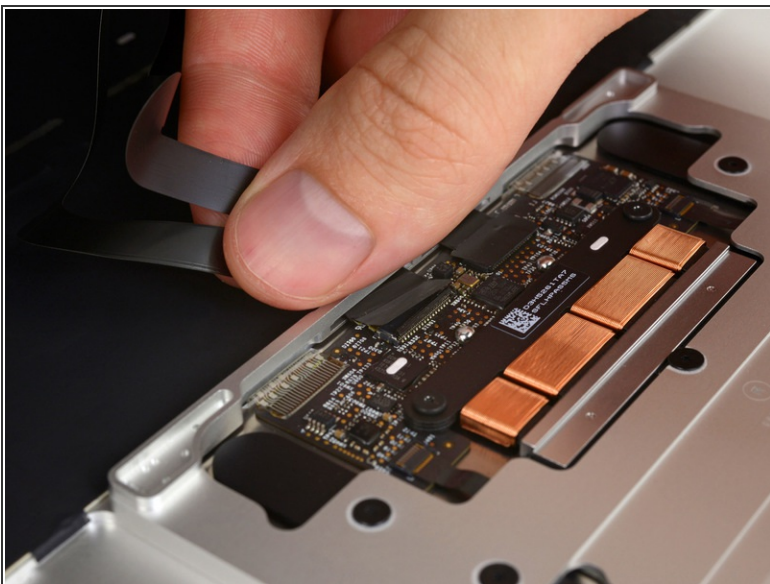


## Step 5



- Use a spudger to carefully flip up the retaining flap on the trackpad cable ZIF connector.

## Step 6



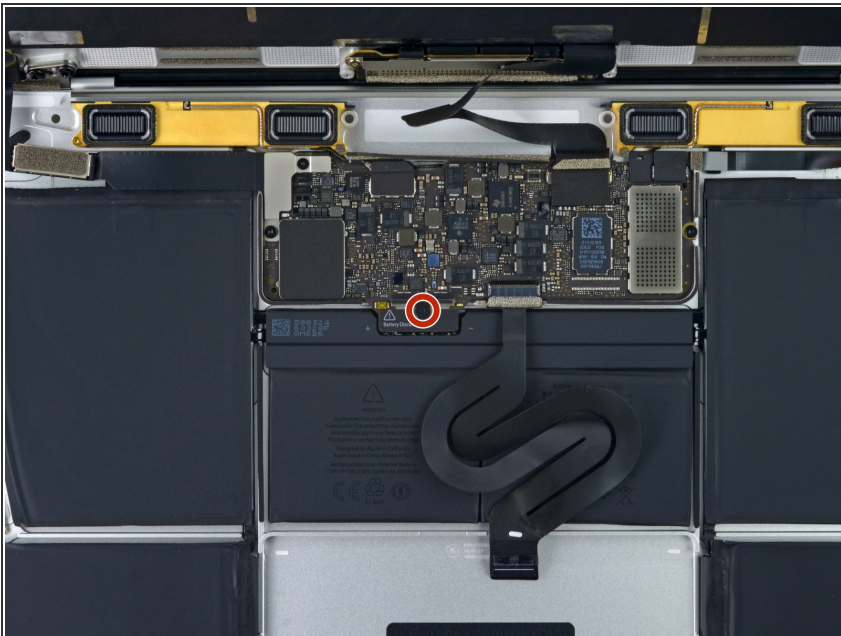
- Disconnect the trackpad ribbon cable from the trackpad by pulling it gently through its slot in the frame.

## Step 7



- Carefully turn the MacBook over, so that the lower case lays flat.
- Raise the upper case/display assembly to about a 90-100° angle, or use something to prop it up so you don't have to hold it.
- ❗ It's possible to open the MacBook all the way and lay both sides down flat, but this may put undue strain on the remaining connecting cables.

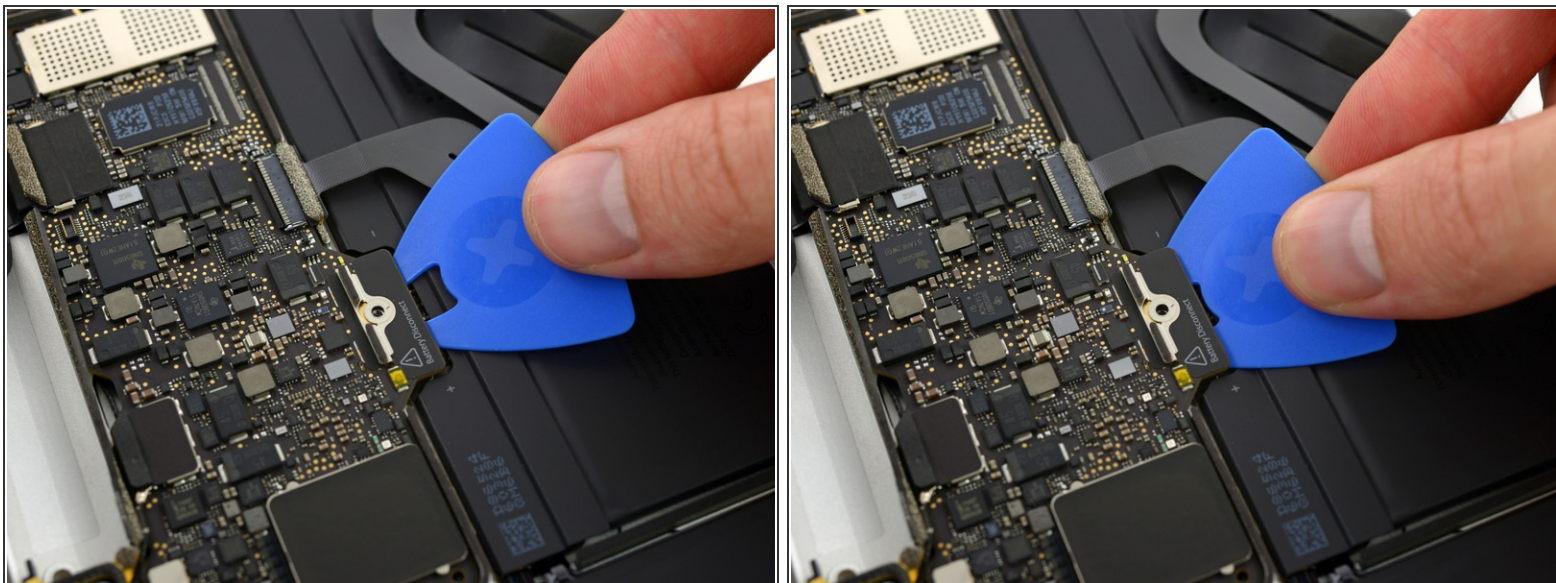
## Step 8



- Remove the single 2.9 mm T5 Torx screw securing the battery connector to the logic board.

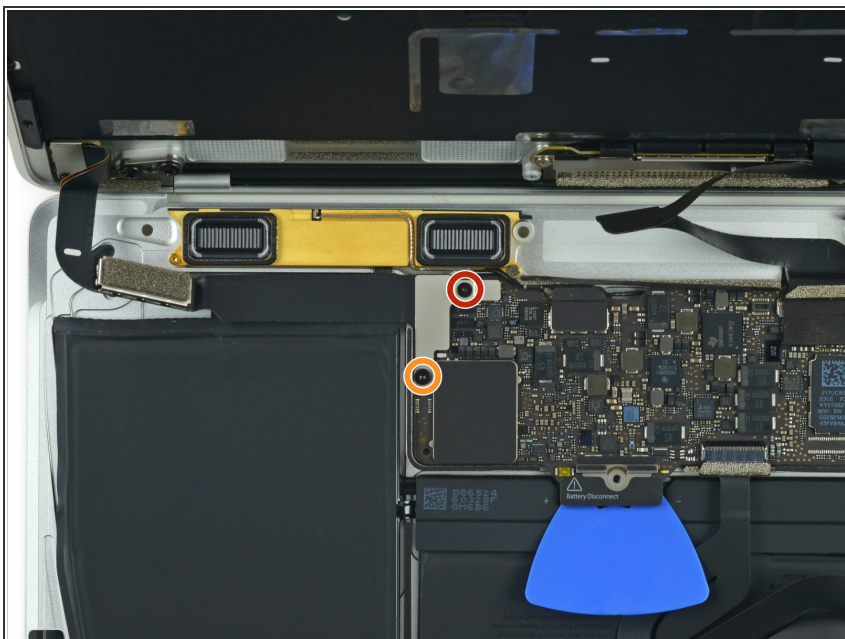


## Step 9



- Disconnect the battery by inserting a [battery isolation pick](#) between the logic board and the battery connector.

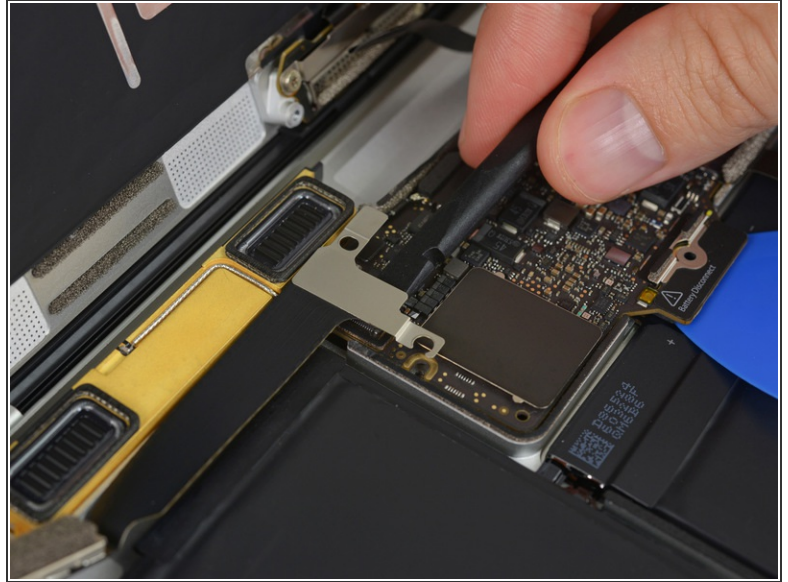
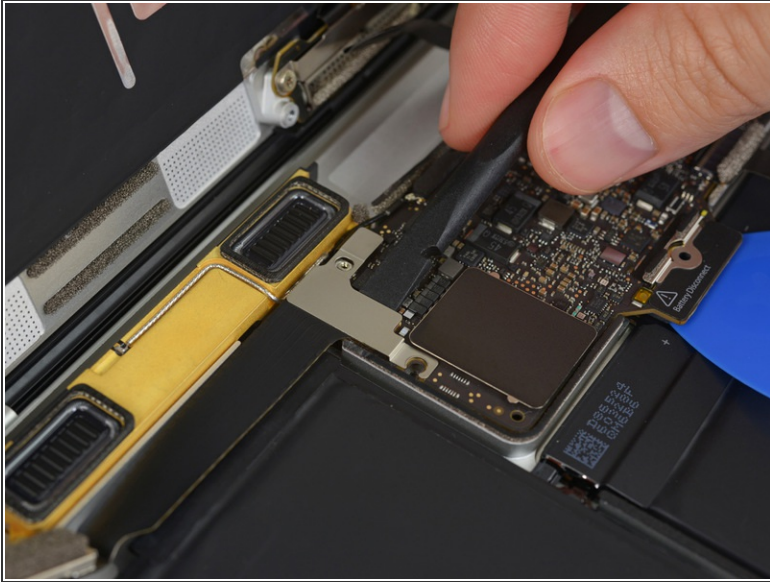
## Step 10



- Remove the two screws securing the USB-C port cable bracket:
  - 1.1 mm Tri-point Y00 screw
  - 3.5 mm T5 Torx screw



## Step 11



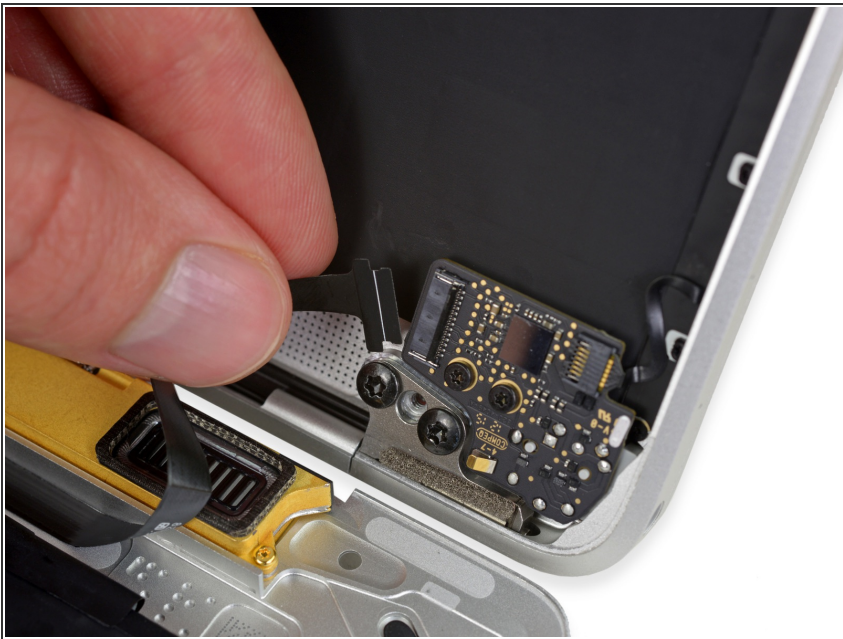
- Use the flat end of a spudger to disconnect the USB-C port cable bracket by prying it straight up from the logic board.

## Step 12



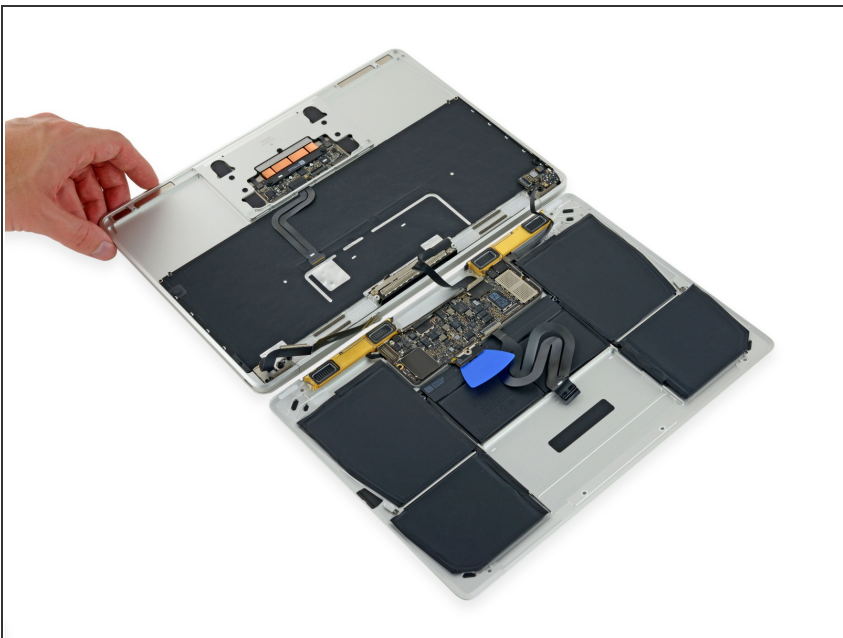
- Use a spudger to flip open the retaining flap on the audio jack board cable ZIF connector.

## Step 13



- Disconnect the audio jack board ribbon cable by pulling it straight back out of the ZIF connector.

## Step 14



- Open the MacBook the rest of the way and lay the two halves down flat, being careful of the ribbon cables that still connect them.



## Step 15 — Audio Jack Board



- Use a spudger to flip open the ZIF connector retaining flap for the dual microphone assembly ribbon cable.

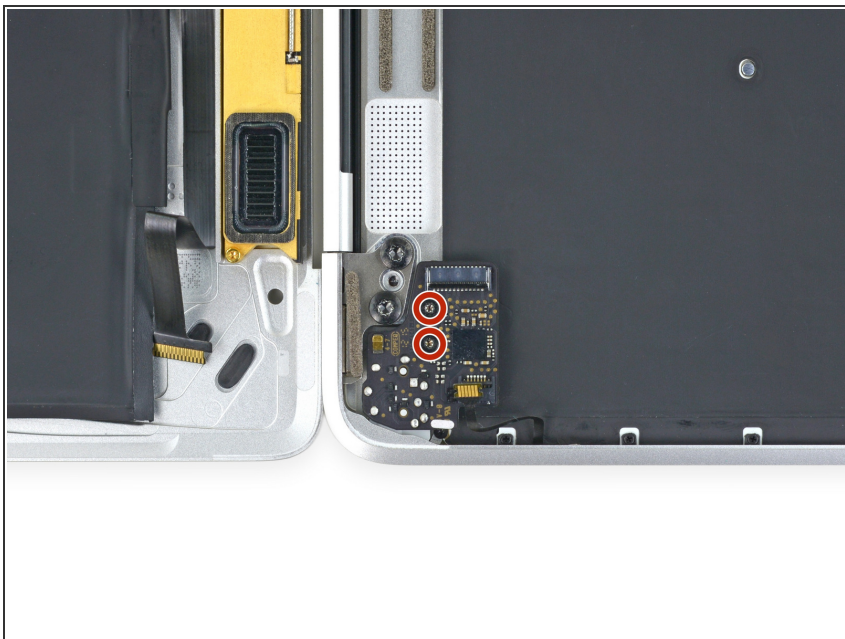
## Step 16



- Disconnect the microphone assembly ribbon cable by pulling it straight out of its connector.



## Step 17



- Remove the two 3.2 mm T5 Torx screws securing the audio jack board to the case.

## Step 18



- Remove the audio jack board.

## Step 19 — Dual Microphone Assembly



- [Prepare an iOpener](#) and apply heat to the upper case directly behind the microphone assembly.

## Step 20



- Use a fine-tip probe or pick to gently peel the dual microphone assembly away from the case.

## Step 21



- Remove the dual microphone assembly.

To reassemble your device, follow these instructions in reverse order.

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